

**TETRA TECH, INC.**

4213 State St., Suite 205
 Santa Barbara, CA 93101
 Telephone (805) 681-3100
 FAX (805) 631-3108

Project: **Vandenberg AFB IRP**
 Log of Well No. **35-MW-4**

Location: **OU4 Site 35, Missile Silo 576-G, approximately 500 feet west of the missile silo**

Date Started: **12/7/93** Completed: **12/8/93**

Logged By: **J. Rohrer** Checked By: **R. Horwath, RG**
 V35MW4-0

Drilled By: **A. Simones, S/G Testing**

Drilling Equipment: **CME 75, 8/10" HSA**

Sampling Equipment: **2" ID Split-spoon**

GS Elev.: **421.3** ft above MSL TD: **40.0 ft** bgs

4" PVC Blank Casing: from **0** ft bgs to **23** ft bgs

0.010 " Screened Casing: from **23** ft bgs to **38** ft bgs

Bentonite/Cement Grout: from **1.5** ft bgs to **18.5** ft bgs

Bentonite Transition Seal: from **18.5** ft bgs to **21** ft bgs

2/12 Sand Filter Pack: from **21** ft bgs to **40** ft bgs

TOC Elev.: **423.61** ft above MSL

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample	Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
	<u>silty sand</u> dark brown (7.5YR 3/2), fine to medium grained, poorly sorted, subrounded, dry, medium dense, Orcutt Formation.	SM			3 9 5	100	0/0.3	Start 1055. Sample V35MW4-0 sent for chemical tests.
5	Same, except dark yellowish brown (10YR 3/4), trace gravel (fine to coarse grained).				5 8 9	100	0/0	Samples V35MW4-5 and V35MW-6 (replicate) sent for chemical tests.
	Same, except no gravel.				7 10 12 15	100	0/0.3	Larger gravel clasts show dark iron stains. Random bands of iron staining from 7 feet to 13 feet.
10	<u>silty sand</u> pale brown (10YR 6/3), fine to medium grained, trace clay, poorly sorted, subrounded, very dense, slightly moist, Orcutt Formation.				11 21 32	100	0/0	Sample V35MW4-10 sent for physical tests.
	<u>sand</u> pale brown (10YR 6/3), fine to medium grained, minor silt, moderately to well sorted, subrounded, slightly moist, Orcutt Formation.	SP-SM						
15					7 13 19	100	0/0	Sample V35MW4-15 sent for chemical tests.
	<u>silty sand</u> dark grayish brown (10YR 4/2), fine to medium grained, trace clay, poorly sorted, subrounded, slightly moist to moist, very dense, Orcutt Formation.	SM			18 30	100	0/0	Sample V35M4-20 sent for chemical tests.

25.5 ft bgs ▽ Groundwater depth during drilling

28.0 ft bgs ▽ Groundwater depth after well development on: 1/18/94

TC Number: **7001-40**

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Depth (ft. bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample Blow Counts Per 6"	Percent Recovery	PID (ppm) Amb/Sup	REMARKS
	<u>silty sand</u> dark grayish brown (10YR 4/2), fine to medium grained, trace clay, poorly sorted, subrounded, slightly moist to moist, very dense, Orcutt Formation.	SM		36			
	<u>sand</u> gray (7.5YR 6/1), fine to medium grained, minor silt, moderately sorted, subrounded, slightly moist to moist, Orcutt Formation.	SP-SM					Iron mottling.
	<u>silty sand</u> gray (7.5YR 5/1), fine to medium grained, minor clay, moderately sorted, subrounded, moderate iron staining, moist, medium dense, Orcutt Formation.	SM-SC					
25				12 25 18	100	0/0	Sample V35MW4-25 sent for chemical tests.
	<u>sand</u> gray (7.5YR 6/1), fine to medium grained, minor silt, well to moderately sorted, subrounded, very moist, Orcutt Formation.	SP-SM					
30				11 18 30	61	0/0.2	Sample V35MW4-30 sent for physical tests.
	<u>silty sand</u> gray (7.5YR 5/1), fine to medium grained, poorly sorted, rounded, dense, wet, Orcutt Formation.	SM					Minor iron staining.
35	<u>sand</u> fine to medium grained, dense, wet, Orcutt Formation.	SP		16 20 26	100		
	<u>silty sand</u> light olive brown (2.5Y 5/4), fine to medium grained, poorly sorted, rounded, wet, Orcutt Formation.	SM					Iron staining/mottling.
40							End 1450.